

**ABSTRACT**

A maximum tube voltage value setting module 240a, a warming-up module 240b, a limit tube voltage control module 240c, a limit tube current control module 240d 5 and a focus grid electrode control module 240e of an operation program 240 which respectively correspond to different maximum tube voltage values are stored in storage sections 32a-e of an X-ray tube control apparatus 3. When the maximum tube voltage value of an 10 X-ray tube 1 is changed, an extraction section 34 extracts each module of the operation program 240 which corresponds to the maximum tube voltage value after being changed from the storage sections 32a-e. A communications section 36 sends the operation program 15 240 comprised of each extracted module to an X-ray tube controller 2 and overwrites it in a memory section 24.